

***National Type Evaluation Program***  
***Certificate of Conformance***  
***for Weighing and Measuring Devices***

**For:**

Retail Motor Fuel Dispenser  
Positive Displacement Meter  
Model: T20453-GX

**Submitted by:**

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**Standard Features and Options**

The Marconi Commerce Systems Inc. Model T20453-GX is also known by the generic name "Ecometer." The "Ecometer" is a twin spindle positive displacement meter that operates with all retail motor fuels, such as gasoline and diesel fuel.

Standard flow rate for one meter, one hose: 1.5 gpm (5.7Lpm) and 21 gpm (50Lpm).

Electronically calibrated via controls located on the dispenser keypad.

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: December 1, 1999

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Gilbert M. Ugiansky, Ph.D.  
Chief, Office of Weights and Measures  
Issue Date: April 19, 2000

**Note:** The National Institute of Standards and Technology does not "approve," "recommend," or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product by the Institute. (See NTEP Policy and Procedures.)

**Marconi Commerce Systems Inc.  
Retail Motor Fuel Dispenser  
Model: T20453-GX**

**Application:** The "Ecometer" may be used in approved and compatible retail motor fuel dispensers to dispense products in the refined petroleum products subgroup. Typical products in the refined petroleum products subgroup include diesel fuel, distillate, gasoline, fuel oil, kerosene, light oil, spindle oil, etc., and the products range in specific gravity from 0.68 to 1.1 and range in viscosity from 20 to 500 SSU.

**Identification:** The Model T20453-GX meters are factory sealed with a tamper proof decal containing the Marconi Commerce Systems Inc. name or logo and a non-repetitive serial number.

**Sealing:** The "Ecometer" does not have any adjustable or metrological calibration features. The meter does not contain any field serviceable components.

Marconi Commerce Systems Inc. provides a factory installed, tamper evident decal/seal containing the Marconi Commerce Systems Inc. name, Trademark or logo, and a non-repetitive serial number. Destruction or absence of the tamper evident seal indicates that the meter's internal mechanisms have been accessed. While the meter does not have any adjustable or metrological calibration features, the inspector should verify that access to the meter's internal mechanisms has not altered the metrological integrity of the device.

**Test Conditions:** This Certificate is issued based on information provided by the manufacturer to change the name of the company from the previous name, Gilbarco Inc., and to transfer ownership of the device covered under Certificate of Conformance Number 99-055 to Marconi Commerce Systems Inc. All institutional knowledge of the previous owner has been transferred to the new company. Test conditions for Certificate of Conformance Number 99-055 are as follows:

**Certificate of Conformance Number 99-055:** These meters were first tested in laboratory conditions with more than a million-gallon throughput. The meters were tested with gasoline, diesel, and varsol. All initial calibration settings and subsequent test results showed that the meters were in compliance with applicable requirements. They were then placed into a Gilbarco Inc. Advantage dispenser in November 1998. As of April 13, 1999, more than 50 000 gallons of product have been dispensed through each meter.

The results of the evaluations indicate the meters comply with applicable requirements of NIST Handbook 44.

**Type Evaluation Criteria Used:** NIST Handbook 44, 1999 Edition

**Tested By:** Ronald Murdock, Jerry Butler, and Wayne Scruton (NC) 99-055

**Information Reviewed By:** L. Sebring, G. Newrock, and T. G. Butcher (NIST) 99-187